

ZENCONTROL DALI LIGHTING FOR SIMPL

Revision: 1.00

Date: 30 April 2026

MODULE DESCRIPTION

Ultamation's Zencontrol Module allows a Crestron system to control Zencontrol DALI lighting systems. The modules provide control of full-colour (RGBWAF) and colour temperature for both individual lights and groups of lights.

This document is intended for Authorised Crestron Programmers and assumes you are familiar with Crestron control systems, networking, and programming.

Controller modules are linked to Light and Group modules via the ParentId parameter.

This solution is only compatible with the Zencontrol Pro-series controllers.

ESSENTIAL STEPS FOR FIRST USE

The controllers, lights, and groups must first be setup on the Zencontrol cloud portal (cloud.zencontrol.com).

The Advanced Third-Party Interface Feature upgrade for the controller must also be purchased from Zencontrol for these modules to function. For more information on this, go to Zencontrol's support website (support.zencontrol.com), click on the Control systems & Concepts page, and scroll down to and open the section on the Third-Party Interface (TPI).

MODULE DETAILS

Zencontrol Controller



Parameters

ParentId – This must have a value that's unique from any other Controller module instances. This is used to link the Controller module to the Light and Group modules that correspond to lights or groups connected to this module's corresponding controller.

ControllerMacAddress – The MAC address of the Zencontrol controller. This can be found on the Zencontrol cloud portal page for the site, under Grid view -> Control system -> Network.

ControllerIpAddress – The IP address of the controller.

ControllerPort – the UDP/TCP port on the Controller that the module uses to access the Third-Party Interface. This should normally be 5108.

Inputs

Debug – This signal is for debugging purposes. When set high it will send extra details to the console and error log. If you are having issues with the module, you can send this information to support@ultamation.com so we can help solve the problem.

EnableEvents – Pulse to request the events are enabled on the controller, which provide feedback. This is done at program start but may need to be triggered if the Zencontrol controller restarts.

GetProfileNums – When pulsed this will fetch the profile numbers of the control profiles that exist on the controller. Returns the numbers in a comma-separated list via the ProfileNums\$ output.

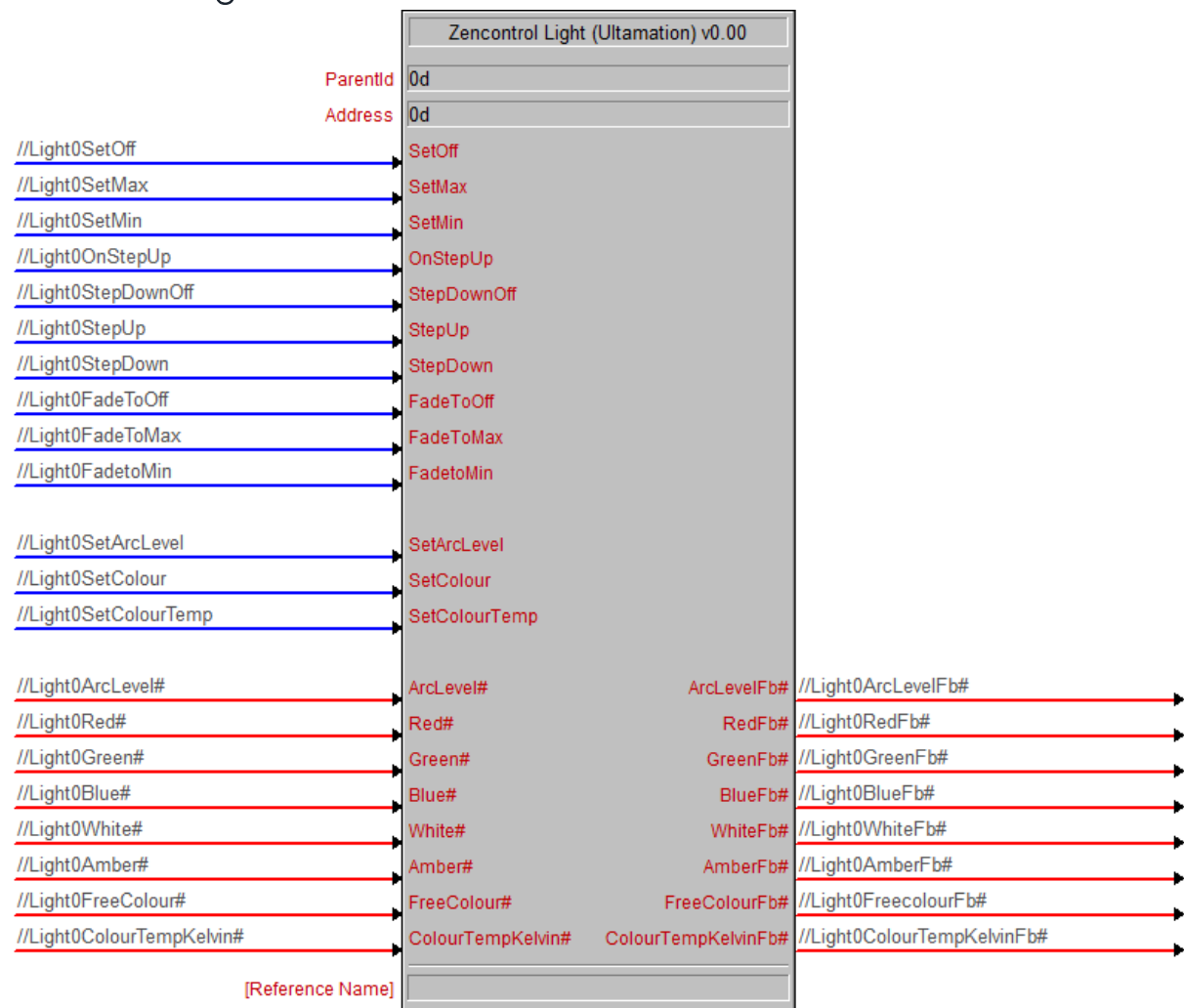
SetProfileNums# - Used to change the control profile of the controller by entering a profile's number.

Outputs

EventsEnabledConfirmed – High indicates that the controller responded to a request to enable events for feedback.

ProfileNums\$ - Provides the controller's profile numbers in a comma-separated list when the GetProfileNums input is pulsed.

Zencontrol Light



Parameters

ParentId – This value must match the ParentId on the Controller module for the controller that this module's corresponding light load is connected to.

Address - The light's address. This can be found on the Zencontrol cloud portal site page under Grid view -> Device types -> ECG -> Address column.

Inputs

All digital inputs should be **pulsed**.

All analogue inputs and outputs are **Full Scale** (0-65535) except **ColourTempKelvin(Fb)#**.

SetOff – Turn the light off without fading.

SetMax – Sets the light to its maximum arc level without fading.

SetMin – Sets the light to its minimum arc level without fading.

OnStepUp – Turn on-if-off and step up the arc level.

StepDownOff – Step arc level down and off-at-min.

StepUp – Step up the arc level.

StepDown – Step down the arc level.

FadeToOff – Fades the light the light off.

FadeToMax – Fades the light to its maximum arc level.

FadeToMin – Fades the light to its minimum arc level.

SetArcLevel – Pulse to set the arc level to the current value of ArcLevel#. Hold high to allow the arc level to change when the ArcLevel# changes.

SetColour – Pulse to set the RGBWAF colour using the current values of ArcLevel#, Red#, Green#, Blue#, White#, Amber#, and FreeColour#. Hold high to allow the RGBWAF colour to change when one of these analogue inputs change.

SetColourTemp – Pulse to set the colour temperature using the current value of ArcLevel# and ColourTempKelvin#. Hold high to allow the colour temperature to change when one of these analogue inputs change.

NOTE: Only one of these Set signals can be held high at once. This is because the arc level is used for all three. Setting two or more high simultaneously will result in no live values being sent.

ArcLevel# - Set to the desired full-scale value for the arc level.

Red#/Green#/Blue#/White#/Amber#/FreeColour# - Set to the desired full-scale values. Together they form a full colour value.

ColourTempKelvin# - Set to the desired Kelvin value.

Outputs

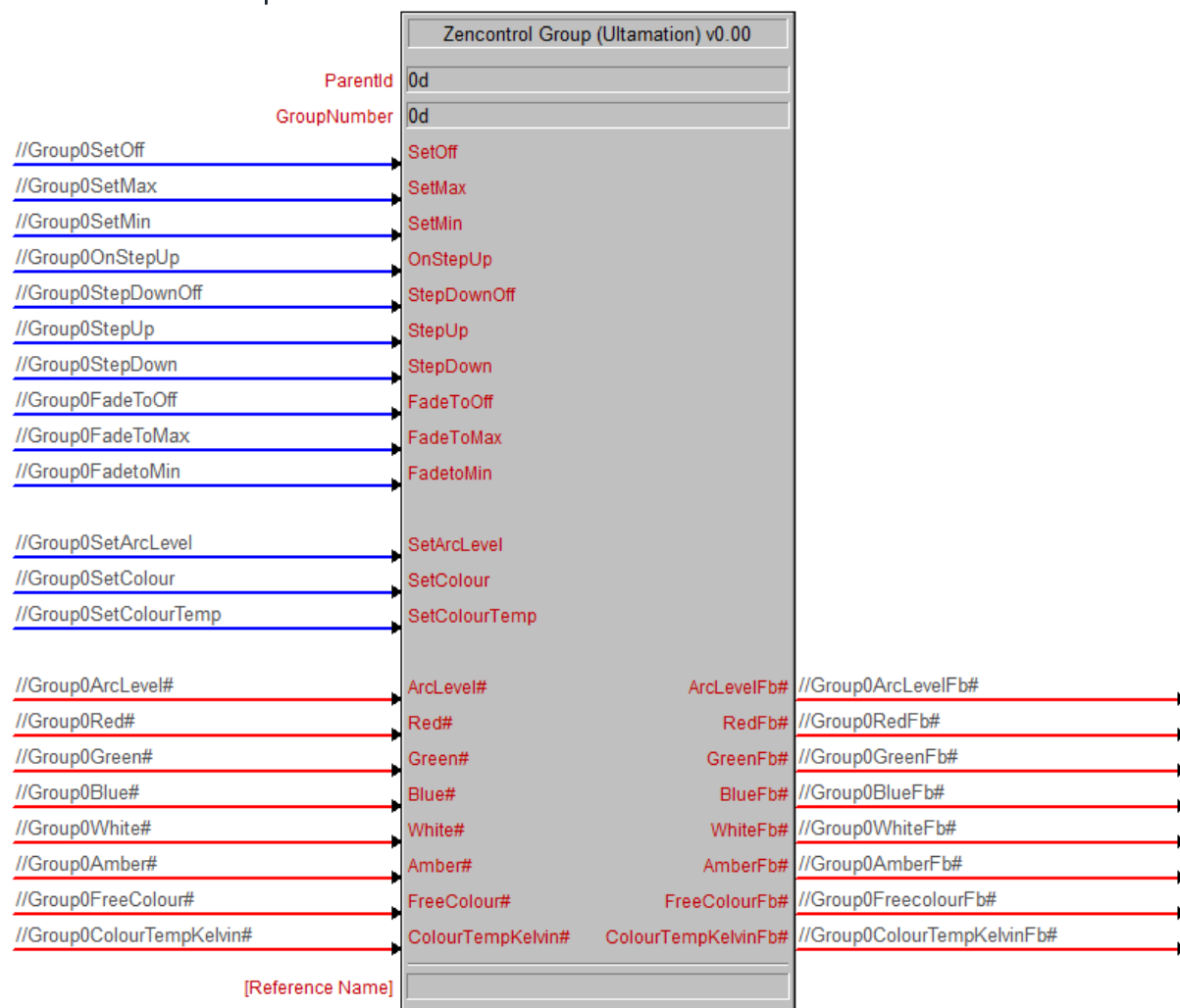
All outputs are updated with **real-time feedback**.

ArcLevelFb# - The current full-scale arc level of the light.

Red#/Green#/Blue#/White#/Amber#/FreeColour# - Together these full-scale values provide the current RGBWAF colour value of the light.

ColourTempKelvinFb# - The current colour temperature of the light, in Kelvin.

Zencontrol Group



The Group module is identical to the Light module other than that it has a GroupNumber parameter instead of the Address parameter. The group number can be found on the Zencontrol cloud portal site page under Grid view -> Groups & scenes -> Group name -> Group column.

SUPPORT

If you have any issues with an integration solution please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

LICENCING

This integration solution (including software, images and all other associated assets distributed as part of the purchased download package) is licenced on a PER ZENCONTROL CONTROLLER, PER CRESTRON PROCESSOR basis.

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

CLOUD LICENCE

This integration solution contacts Ultamation's licencing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licenced. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.